Fig.S3-A

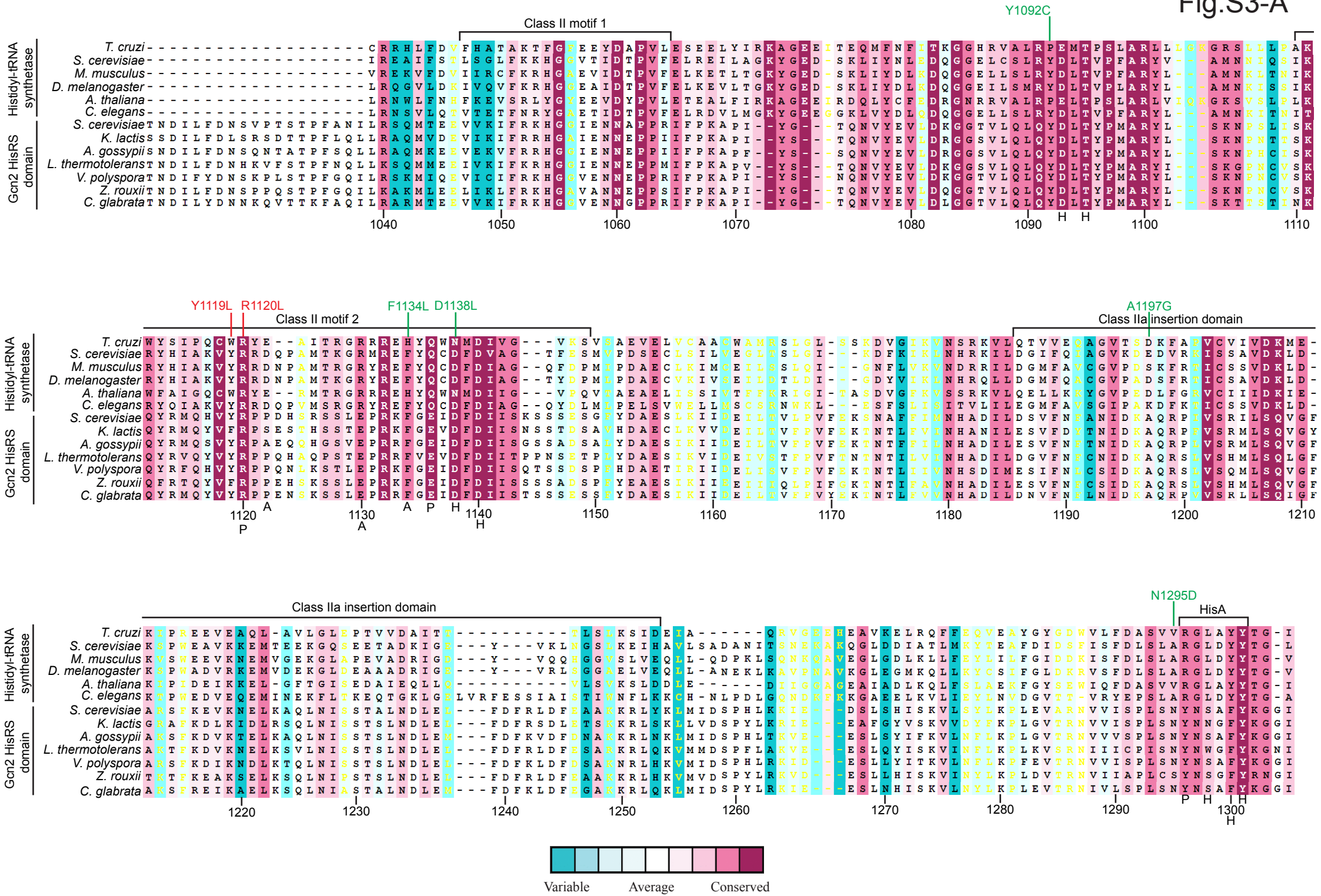
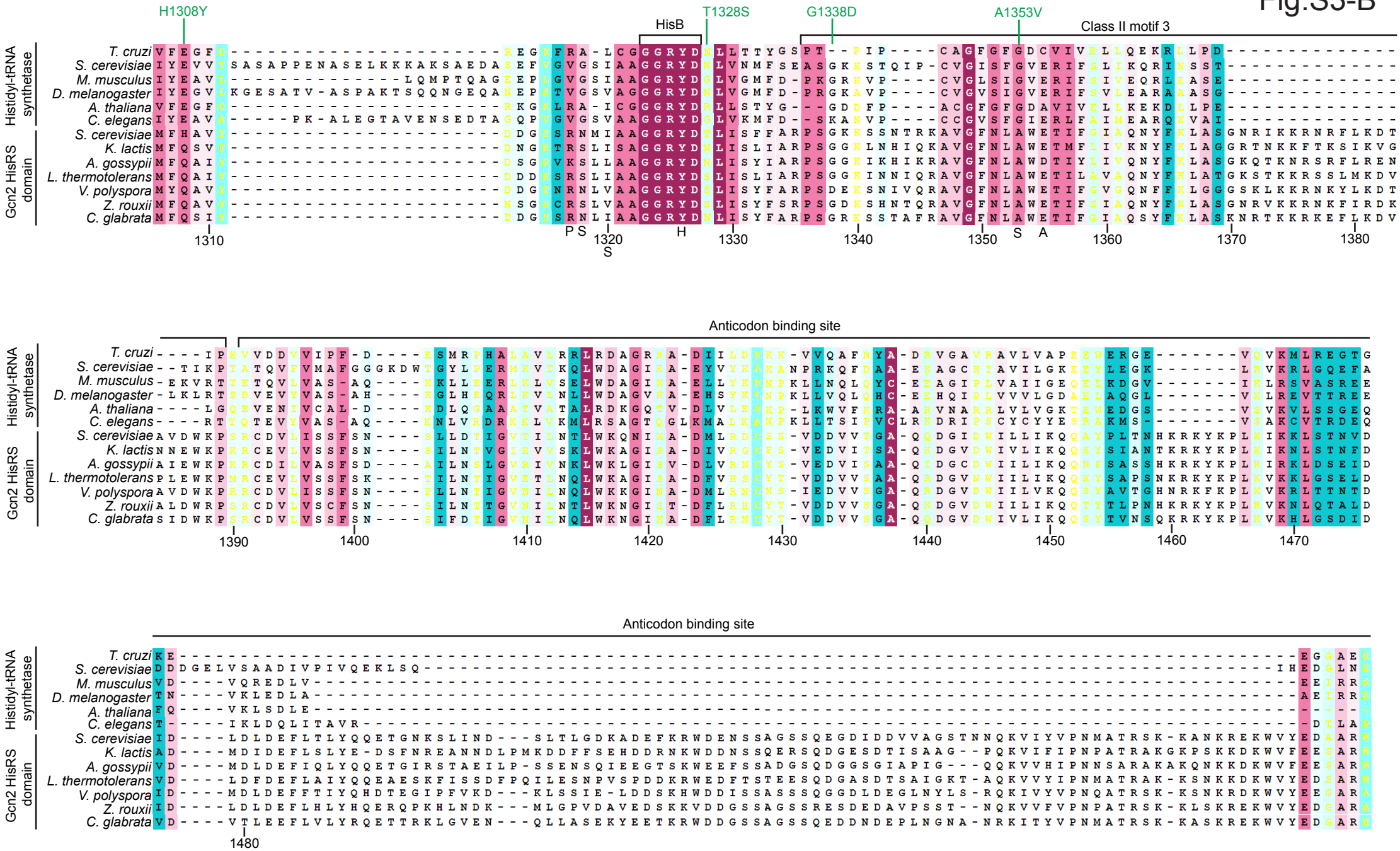

Class II motif 1
Y1092C
Histidyl-tRNA synthetase
Gcn2 HisRS domain
T. cruzi
S. cerevisiae
M. musculus
D. melanogaster
A. thaliana
C. elegans
K. lactis
A. gossypii
L. thermotolerans
V. polyspora
Z. rouxii
C. glabrata
Y1119L
R1120L
F1134L
D1138L
Class II motif 2
A1197G
Class IIa insertion domain
N1295D
HisA
Variable
Average
Conserved

Fig.S3-B


H1308Y
T1328S
G1338D
A1353V
HisB
Class II motif 3
Anticodon binding site
Anticodon binding site
Histidyl-tRNA synthetase
Gcn2 HisRS domain
T. cruzi
S. cerevisiae
M. musculus
D. melanogaster
A. thaliana
C. elegans
S. cerevisiae
K. lactis
A. gossypii
L. thermotolerans
V. polyspora
Z. rouxii
C. glabrata
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